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NaPdf1

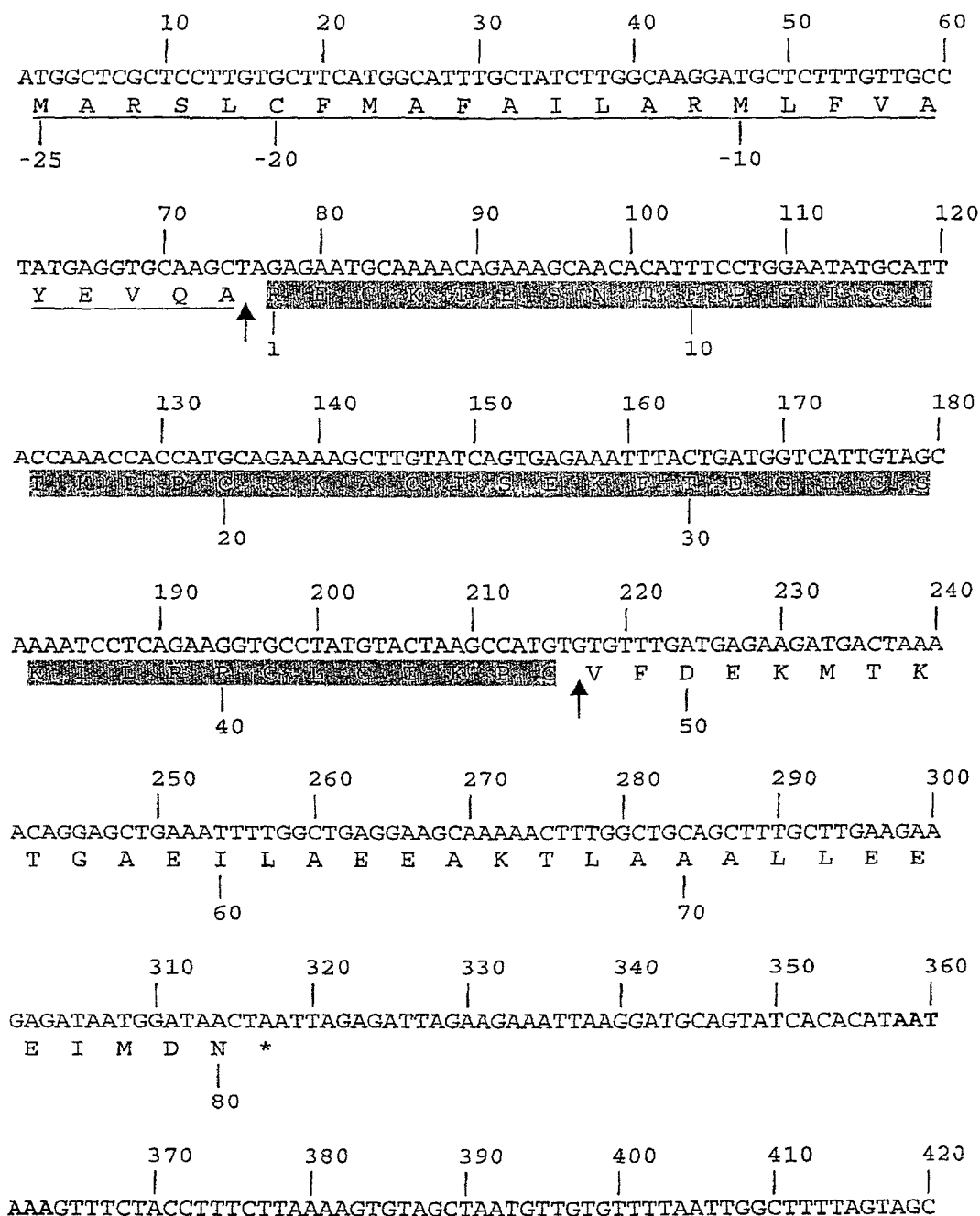


Figure 1

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```
      430      440      450      460      470      480
      |        |        |        |        |        |
CTTTTATTACACTTTTAAATAAGTGTGGCACTTCAATCCTTTGTGCAATCTTGCACTAAGT

      490      500      510      520      530      540
      |        |        |        |        |        |
TTATTTGTGTACTTTTAATGAAAATGACCTTCTATGGTCTTTGGTTAAAAAAAAAAAAAA

541
|
A
```

Figure 1 continued

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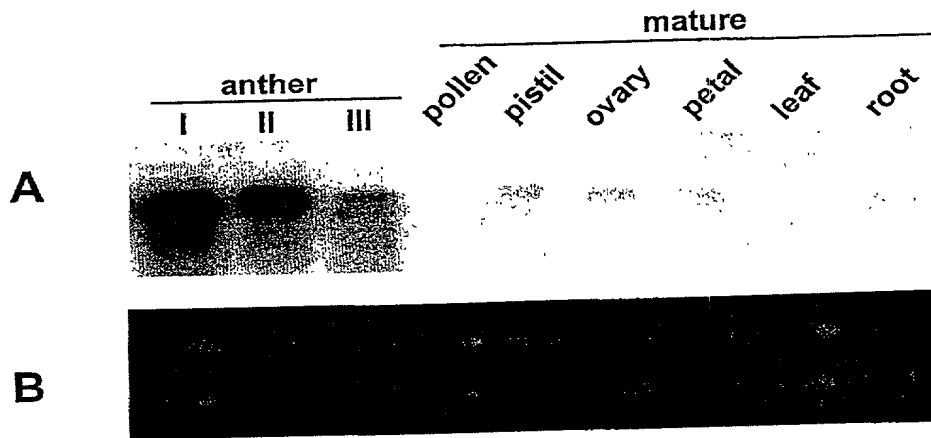
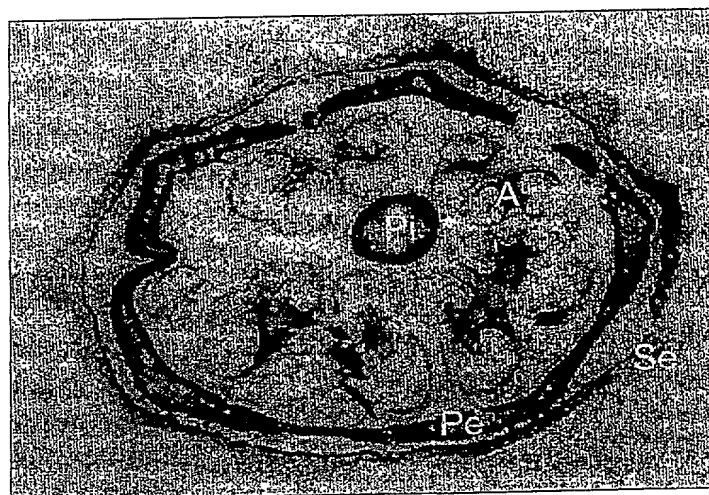


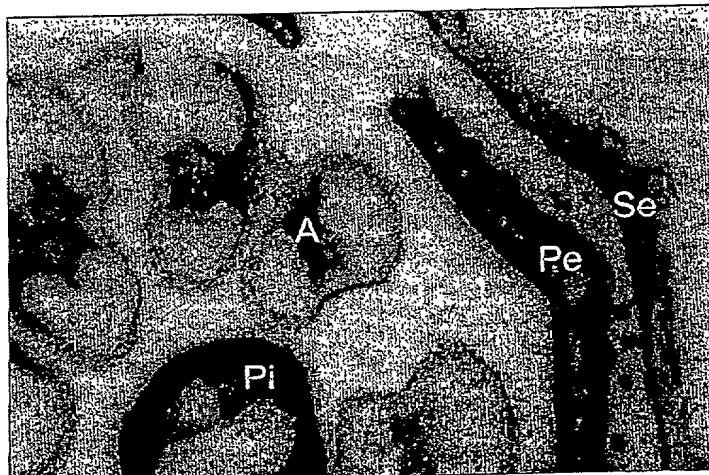
Figure 2

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A



B



C

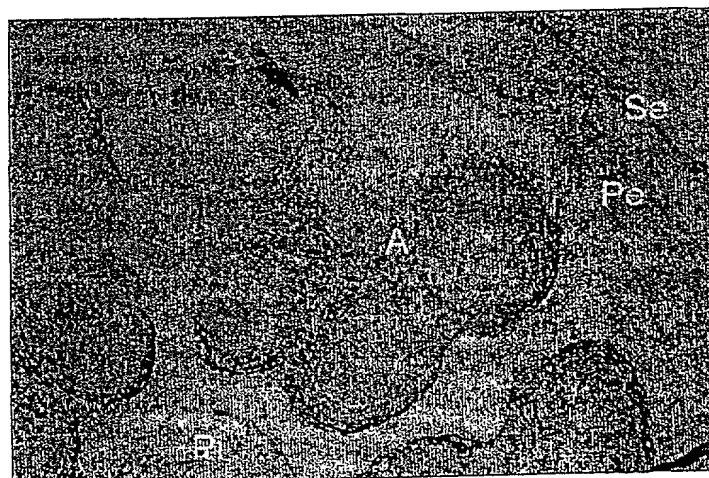
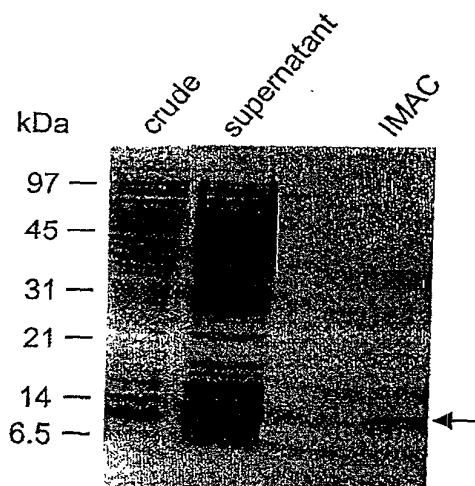


Figure 3

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A



B

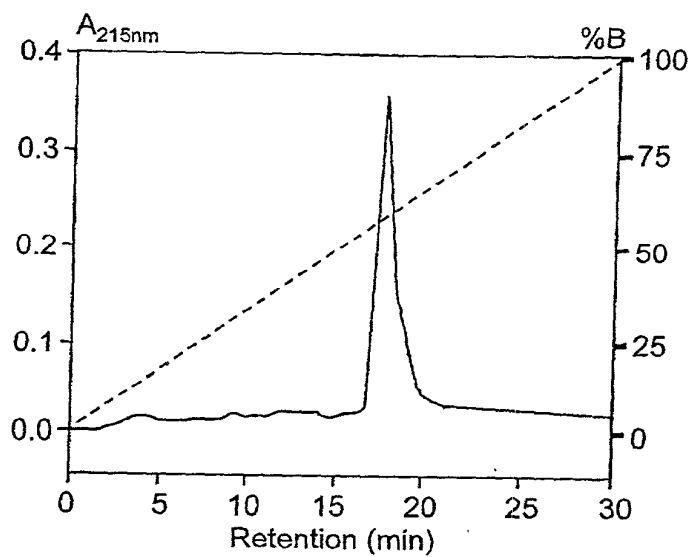


Figure 4

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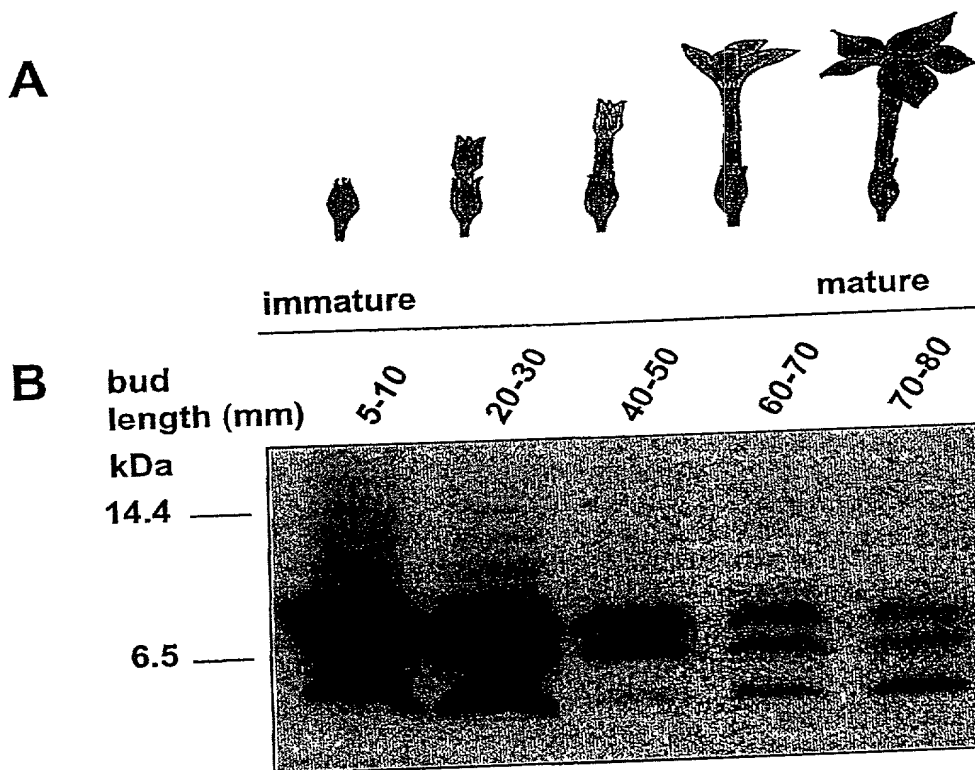
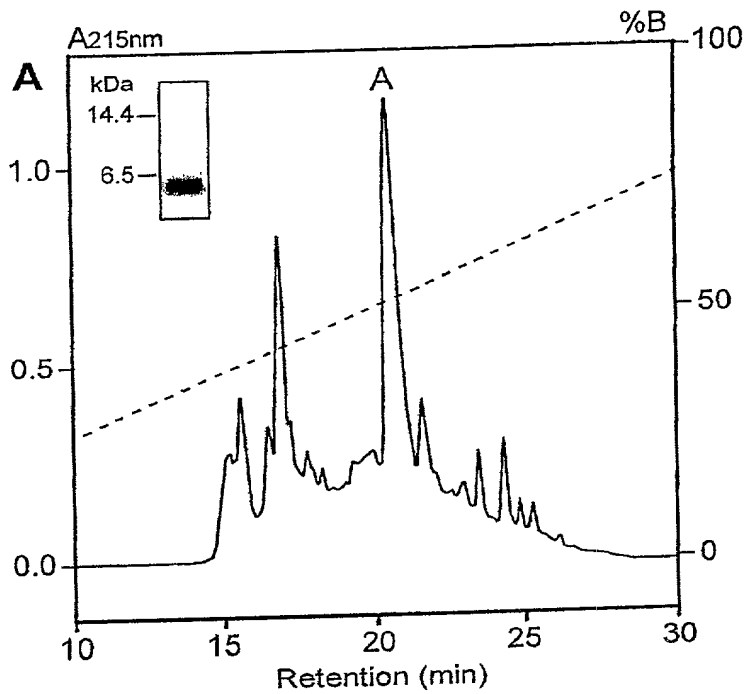


Figure 5

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| | Peak A |
|---------------------|----------|
| Protein | NaPdf1 |
| % Acetonitrile | 30.7 |
| N-terminal sequence | RExKTESN |
| Predicted mass (Da) | 5296.0 |
| Observed mass (Da) | 5296.7 |

Figure 6

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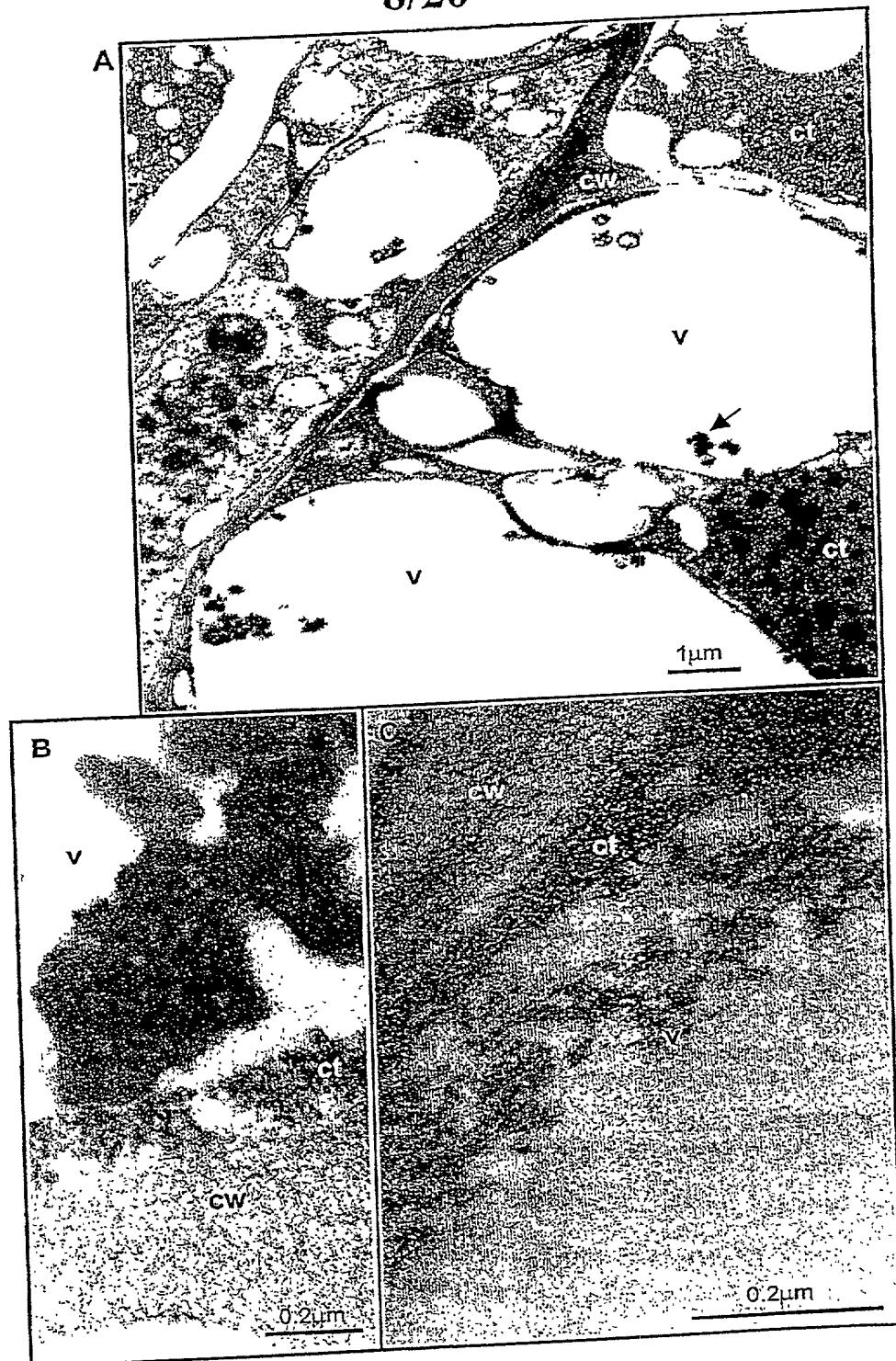


Figure 7

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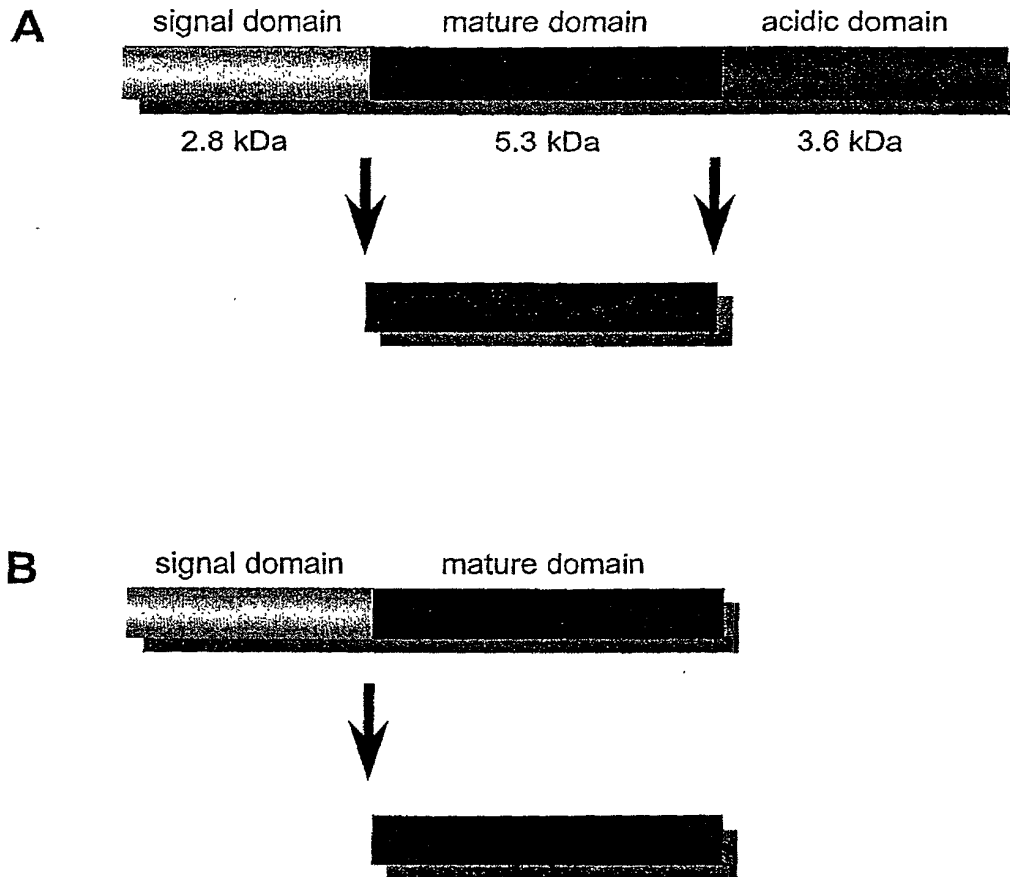


Figure 8

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| | | |
|---------|-----------|------------------------------------------------------|
| NaPdf1 | (<400>18) | MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFPGICITKPP |
| FST | (<400>20) | MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFPGICITKPP |
| TTP3 | (<400>21) | MARSIFFMAFLVLAMMLFVITYEV-----EAQQICKAPSQTFFGLCFMDSS |
| NTS13 | (<400>22) | MANSMRFFATVLLIALLVTATEMGPMITIAEA-RTCESQSHRFKGPCSRDSN |
| PPT | (<400>23) | MGRSIRLFATFFLIAMFLSTEMGPMITSAEA-RTCESQSHRFHGTCVRESN |
| ATPIIIa | (<400>24) | MKLSMRLISAVLIMFIMFVATGMGPVT-VEA-RTCESQSHRFKGTCSASN |

| | |
|---------|----------------------------------------------------------------|
| NaPdf1 | CRKACISEKFTDGHCSKILRRCLCTKPCVFDEKMTKTGAELAEAEAKTLAAALLLEEIMDN |
| FST | CRKACISEKFTDGHCSKLLRRCLCTKPCVFDEKMIKTGAETLVEEAKTLAAALLLEEIMDN |
| TTP3 | CRKYCIKEKFTGGHCSKLQRKCLCTKPCVFDKISSEVKA-TLGEAEAKTLSEVVLEEEIMME |
| NTS13 | CATVCLTEGFSGGRCPWIPPRCFCTSPC----- |
| PPT | CASVCQTEGFIGGNCRAFRRRCFCTRNC----- |
| ATPIIIa | CANVCHNEGFVGGNCRGFRRRCFCTRHC----- |

Figure 9

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| | | | |
|-------------------------|---------|-----------------------------------------------------------|-----------|
| Nicotiana alata | Napdf1 | -REC-KTESNTPF-GICITKPPCKACIS-EKFTDGH-CSK--ILRRCLCTKPC- | (<400>8) |
| Nicotiana tabacum | FST | -REC-KTESNTPF-GICITKPPCKACIS-EKFTDGH-CSK--LLRRCLCTKPC- | (<400>25) |
| Lycopersicon esculentum | TPP3 | -QIC-KAPSQTFP-GLCFWSSCRKYCIK-EKFTDGH-CSK--LQRKGLCTKPC- | (<400>26) |
| Solanum tuberosum | P322 | -RHC-ESLSHRFK-GPCTRDSNCASVCEI-ERFSGGN-CHG-F-RRRCFTKPC- | (<400>27) |
| Petunia inflata | PPT | -RTC-ESQSHRFH-GTCVRESNCASVCQT-EGFIGGN-CRA-F-RRRCFTKPC- | (<400>28) |
| Glycine max | SE60 | -RVC-ESQSHGFH-GLCNRDHNCALVCNE-G-FSGGRCKG-F-RRRCFTKPC- | (<400>29) |
| Hordeum vulgare | Y1-H | -RIC-RRRSAGFK-GPCVSNKNCAQVCQE-G-WGGGNCDDG--PLRRCKCMRR- | (<400>30) |
| Sinapis alba | M2A | PQKLC-QRPSGTWS-GVCGNNNACRNQCINLEKARHGS-CNYVFFPAHKCICYFPC- | (<400>31) |
| Solanum tuberosum | PTH-St1 | -RNC-ESLSHRFK-GPCTRDSNC----- | (<400>32) |
| Raphanus sativus | Rs-AFP1 | PQKLC-ERPSGTWS-GVCGNNNACRNQCINLEKARHGS-CNYVFFPAHKCICYFPC- | (<400>33) |
| Raphanus sativus | Rs-AFP2 | PQKLC-QRPSGTWS-GVCGNNNACRNQCINLEKARHGS-CNYVFFPAHKCICYFPC- | (<400>34) |
| Sinapis alba | M1 | PQKLC-ERPSGTWS-GVCGNNNACRNQCINLEKARHGS-CNYVFFPAHKCICYFPC- | (<400>35) |
| Sinapis alba | M2B | PQKLC-ARPSGTWSGNCRRNNNACRNFCIKLEKSRHGS-CNIPFPSNKCICYFPC- | (<400>36) |
| Triticum turgidum | Y1-P | -KIC-RRRSAGFK-GPCMSNKNCAQVCQE-G-WGGGNCDDG--PFRRCCKIRQC- | (<400>37) |
| Triticum turgidum | Y2-P | -KVC-RORSAGFK-GPCVSDKNCAQVCQE-G-WGGGNCDDG--PFRRCCKIRQC- | (<400>38) |
| Vigna unguiculata | 10kDa | -KTC-ENLVDTYR-GPCTTGSCDDHCNKEHLLSGR-CR--DDVRCWCSTRNC- | (<400>39) |
| Sorghum bicolor | Sia2 | -RVC-MKXSAGFK-GLCWRDQNCQVCQE-G-WGGGNCDDG--VMRQCKCIRQCW | (<400>40) |
| Sorghum bicolor | Sia3 | -RVC-RRRSAGFK-GLCMSDHNCQVCQE-G-WGGGNCDDG--VIRQCKCIRQCW | (<400>41) |
| Dalia merckii | Dm-AMP2 | -EVC-EKASKTWS-GNCGNTGHC----- | (<400>42) |
| Sorghum bicolor | Sia1 | -RVC-MKGSQHHS-FPCISDRLCSNECVKEEGWTAGYCH---LRYCRQKAC- | (<400>43) |
| Pisum sativum | P1230 | -NTC-ENLAGSYK-GVCF--GGCDRHCHTQEGAI SGR-CR---DDFRWCCTKNC- | (<400>44) |
| Aesculus hippocastanum | Ah-AMP1 | --LCNERPSQTWS-GNCGNTAHCDKQCDWEKASHGA-CHKRENHWKFCYFNC- | (<400>45) |
| Heuchera sanguinea | Hs-AFP1 | -KLC-DVPSGTWS-GHCGSSSKCSQCKDREHFAYGGACHYQFPSVKFCCKRQC- | (<400>46) |
| Dalia merckii | Dm-AMP1 | -ELC-EKASKTWS-GNCGNTGHCNDQCKSWEGAHA-CHVRNGKHMCFYFNC- | (<400>47) |
| Pisum sativum | P139 | -NTC-EHLADTYR-GVCFTNASCDDHCNKAHLISGT-CH----DWKCFCTQNC- | (<400>48) |
| Clitoria ternatea | Ct-AMP1 | -NLC-ERASLTWT-GNCGNTGHCdTQCRNWESAKHGA-CHKRGN-WKCFYFNC- | (<400>49) |

Figure 10

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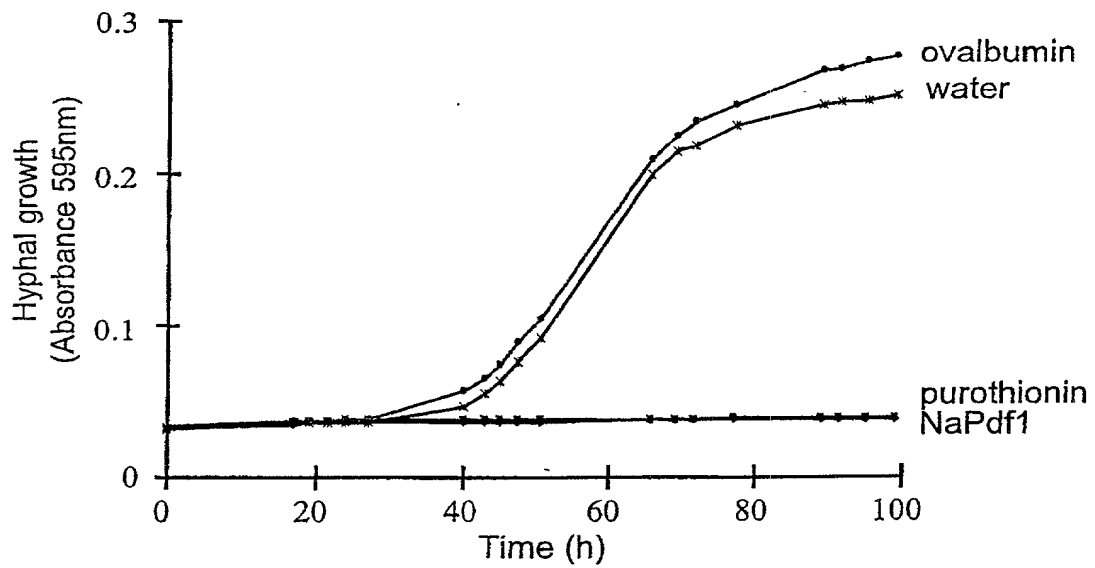


Figure 11

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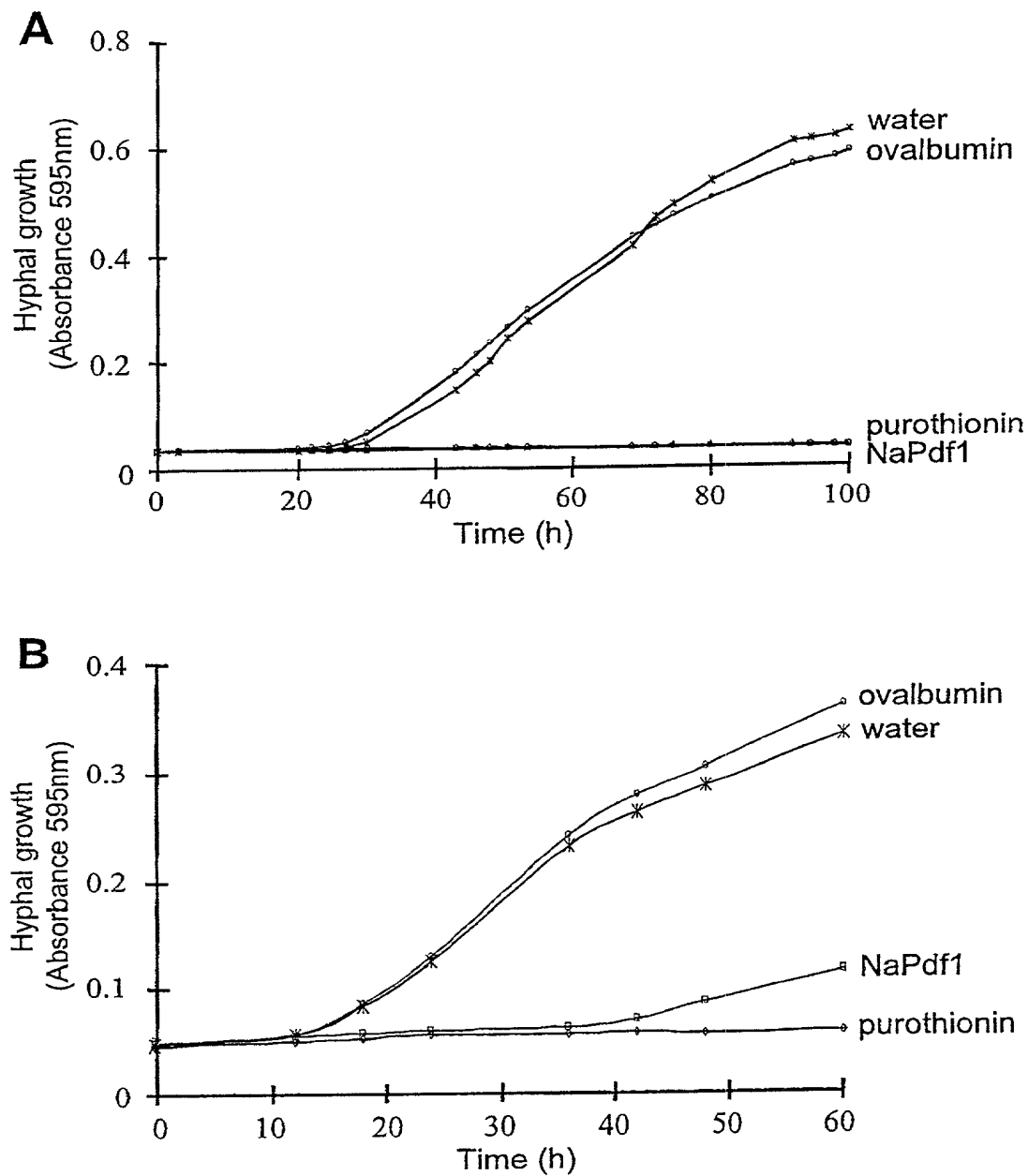


Figure 12

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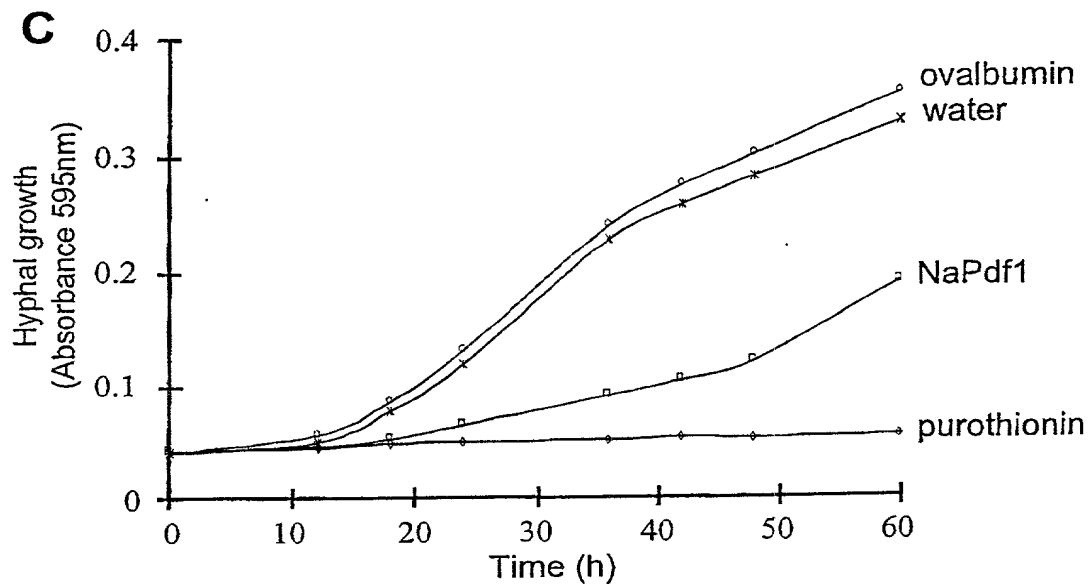


Figure 12 continued

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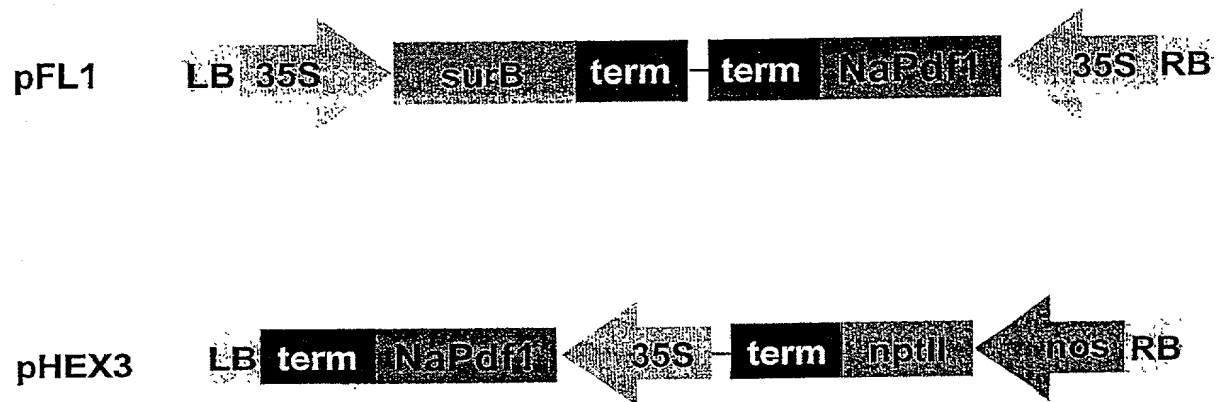


Figure 13

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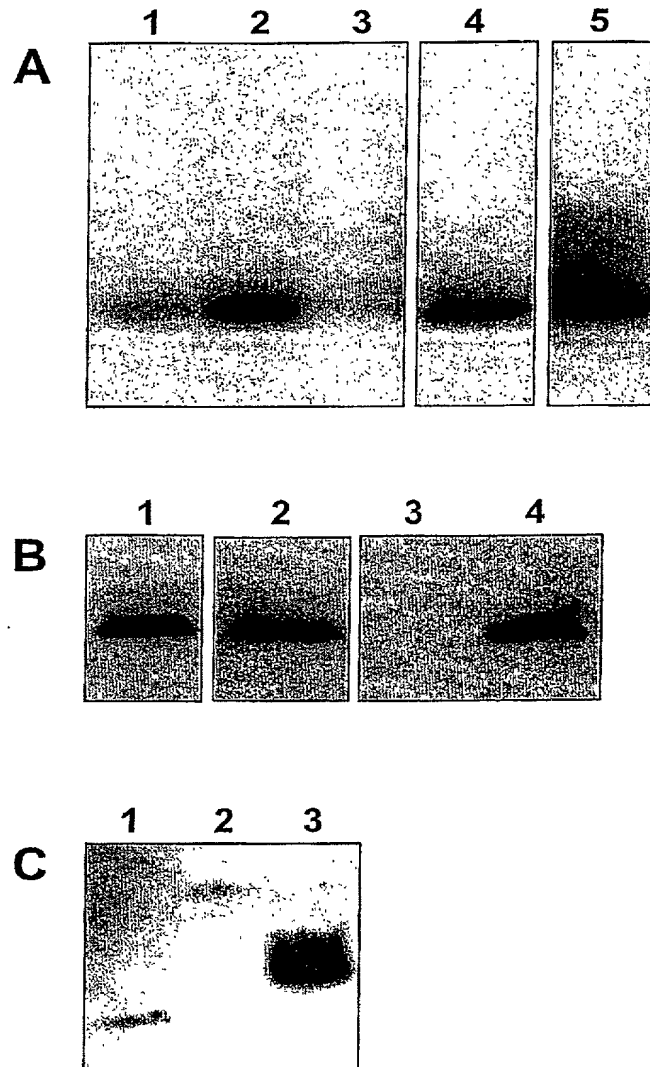


Figure 14

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H. punctigera bioassay with transgenic tobacco

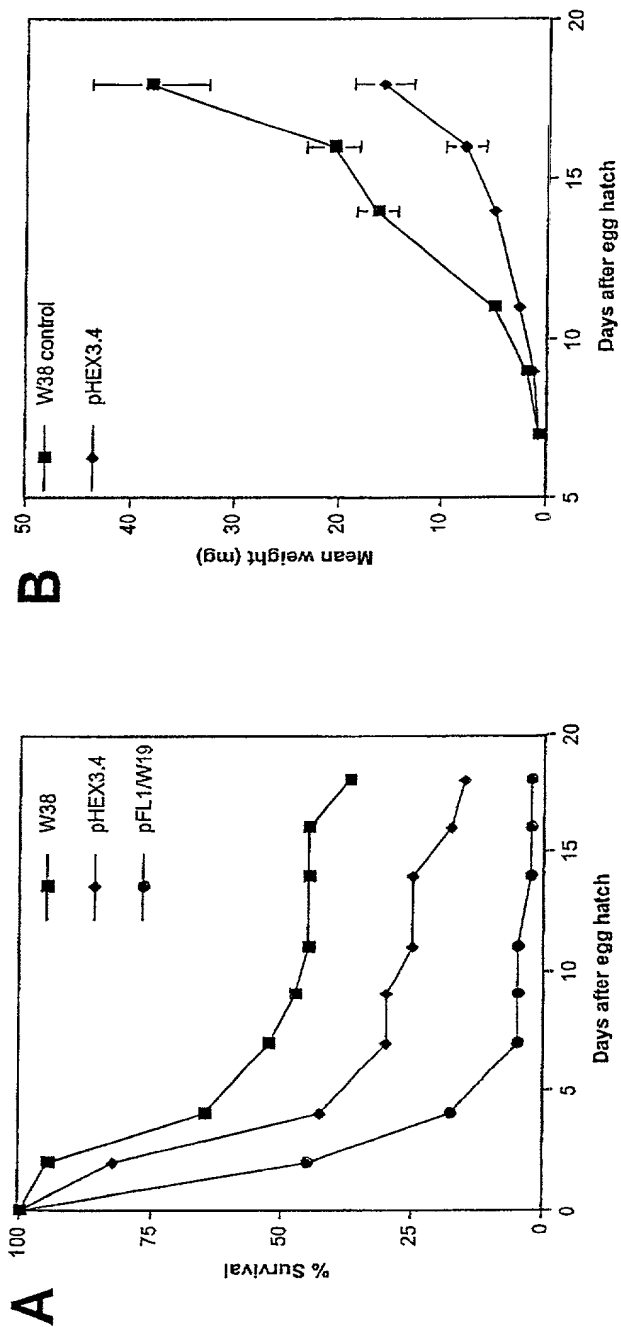


Figure 15

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H. armigera bioassay with transgenic tobacco

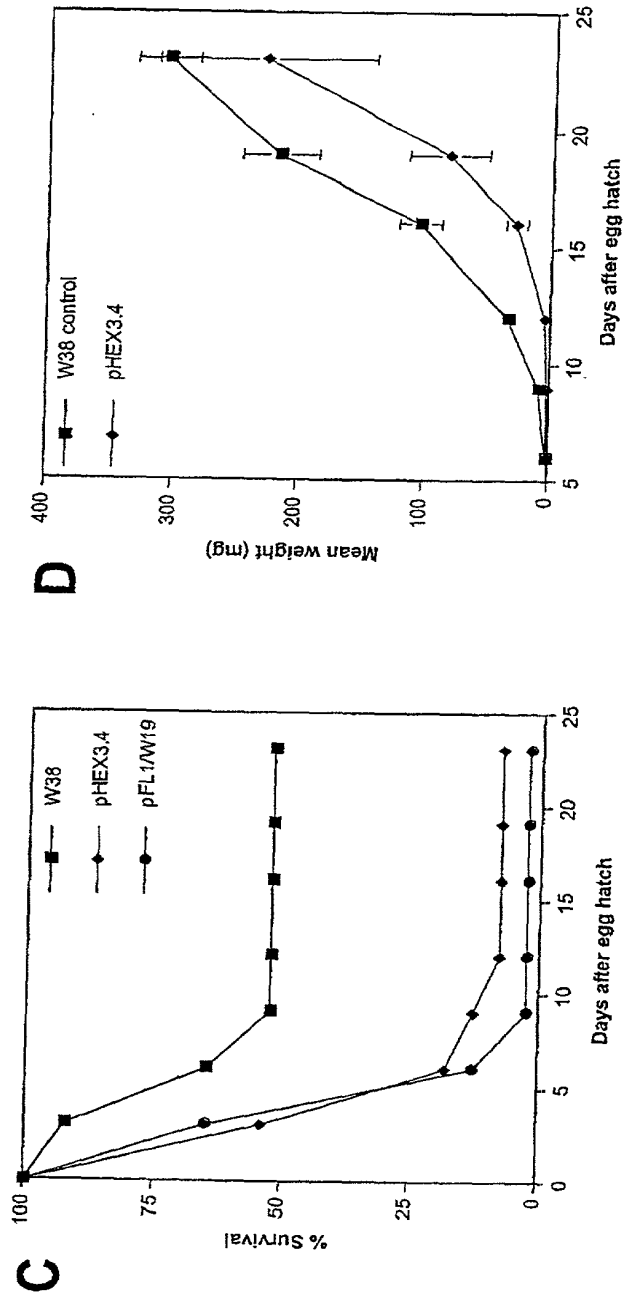


Figure 15 continued

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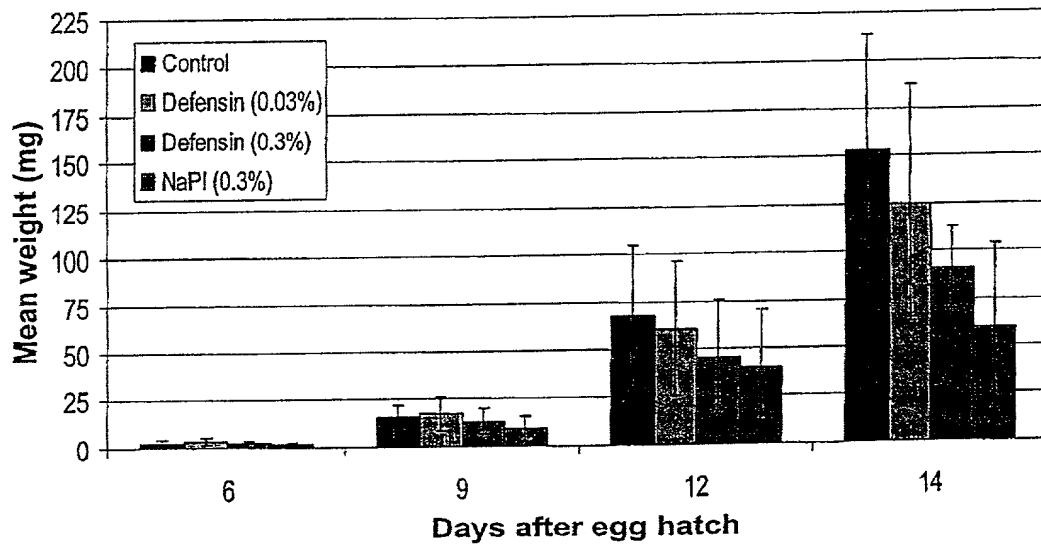


Figure 16

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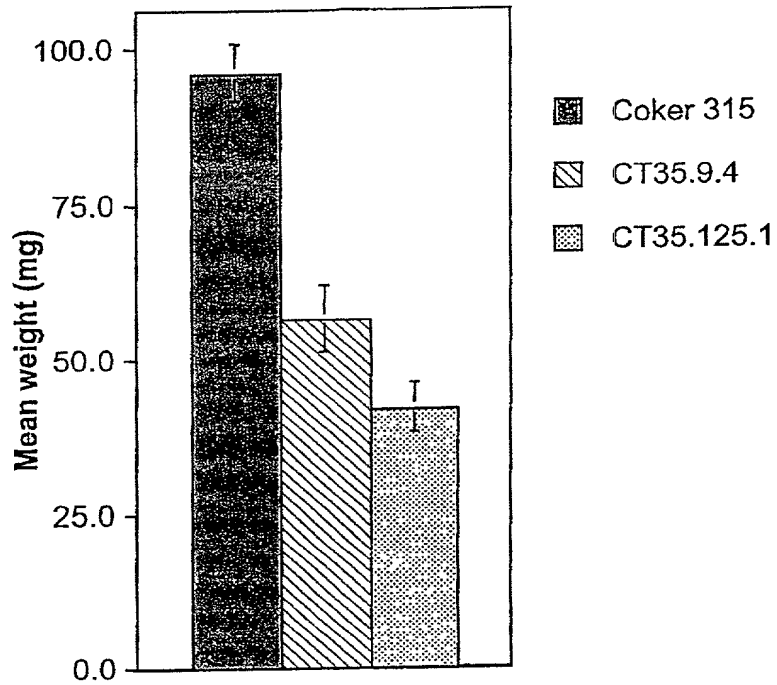


Figure 17